

CLAIMS

1. A light guide plate characterized by being obtained by melt molding a thermoplastic resin having a melt flow rate of at least 50 [g/10min.] under a load of 2.16 kgf at 280°C.

2. The light guide plate as set forth in claim 1, having a incidence face into which light from a light source is introduced and a emission face from which light introduced from said incidence face is emitted and having a sectional shape becoming gradually thinner from a side of the incidence face to a side of a nonincidence face which is located at an opposite side of the incidence face.

3. The light guide plate as set forth in claim 2, wherein the length of a diagonal of said emission face is at least 10 inches.

4. The light guide plate as set forth in claim 2, wherein the thickness of said incidence face is not more than 5 mm and the thickness of said nonincidence face is not more than 4 mm.

5. The light guide plate as set forth in claim 2, wherein a reflection face facing the emission face is formed with grooves as a pattern of fine shapes.

6. The light guide plate as set forth in claim

1, wherein said thermoplastic resin has a 50% breaking energy of at least 0.01J in a drop-weight test, measured for a 3 mm thick plate of the same using a missile-type weight of a radius of 3/4 inch.

5           7. The light guide plate as set forth in claim 1, wherein said thermoplastic resin has a glass transition temperature of at least 70°C.

8. The light guide plate as set forth in any one of claims 1, 6, and 7, wherein said thermoplastic resin is a thermoplastic resin containing an alicyclic structure.

9. The light guide plate as set forth in claim 8, wherein said thermoplastic resin containing an alicyclic structure is a norbornene-based polymer.

10           10. A process of production of a light guide plate characterized by melt molding a thermoplastic resin having a melt flow rate of at least 50 [g/10min.] under a load of 2.16 kgf at 280°C.

20           11. The process of production of a light guide plate as set forth in claim 10, wherein said melt molding is injection molding.